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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

8.31.e Draining and Filling Systems Checklist

C-A OPM Procedures in which this Attachment is used.

8.31		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Approved: Signature on File _____
Collider-Accelerator Department Chairman Date

L. Vogt

Checklist for Draining and Filling Systems

Job WCS #: _____

(If the step does not apply, write NA in "Check" column)

	<u>Check</u>
1. Refer to RWP#_____ for radiological conditions and controls.	_____
2. Lockout-Tagout (LOTO)	_____
3. Isolation valves closed (i.e., make-up)	_____
4. Floor drains within 15ft are plugged	_____
5. Connect hose between system low-point and tanker including pump and filter	_____
6. Place drip-pans below all joints	_____
7. <u>START DRAINING</u>	_____
<u>Caution:</u> Under NO circumstances shall draining/filling be performed unattended!	
8. Vent high point(s)	_____
9. Use pump as required	_____
10. Check level in tanker frequently	_____
11. Stop draining and switch compartments as required	_____
12. <u>TRANSFER to WM</u> (Waste Management)	_____
13. Connect hoses between C-A tanker and WM tanker including pump, deionizer and filter	_____
14. Place drip-pans below joints	_____

CONTINUED ON NEXT PAGE

Checklist for Draining and Filling Systems (continued)

	<u>Check</u>
15. Begin transfer with flow rate approx. 25 gal/min and discharge pressure less than 100 psig	_____
16. Coordinate transfer with WM	_____
17. TRANSFER TO SYSTEM	_____
18. Connect hoses between tanker and system including pump and filter (but NOT deionizer)	_____
19. Place drip-pans below joints	_____
20. Transfer to system until water appears at vents	_____
21. Isolate system from tanker	_____
22. Open appropriate valves from system operation	_____
23. Remove LOTO and briefly circulate water in system	_____
24. Repeat Steps 20-23	_____

Note:

If the sequence of this checklist must be altered when performed, Note and Initial the change.

Signature: _____

Date: _____